★ ANNUAL CONVENTION ISSUE ★

# THE CALIFORNIA VETERINARIAN

U. S. GRANT HOTEL
San Diego

CONVENTION HEADQUARTERS

**JUNE 21, 22, 23, 1954**

★

**MAY - JUNE 1954**

PUBLISHED BY CALIFORNIA STATE VETERINARY MEDICAL ASSOCIATION

## DOCTOR, PLEASE!

Calo endeavors to safeguard its long and favorable relationship with the Veterinary Profession; treasuring many friendships that were born over a quarter of a century ago.

Calo neither manufactures nor recommends any type of remedy for pets, knowing that this field is well covered by trained Veterinary Specialists.

Calo does, however, continually strive to improve the content of its foods and asks that you examine and compare them for honest-to-goodness quality that you CAN SAFELY prescribe.

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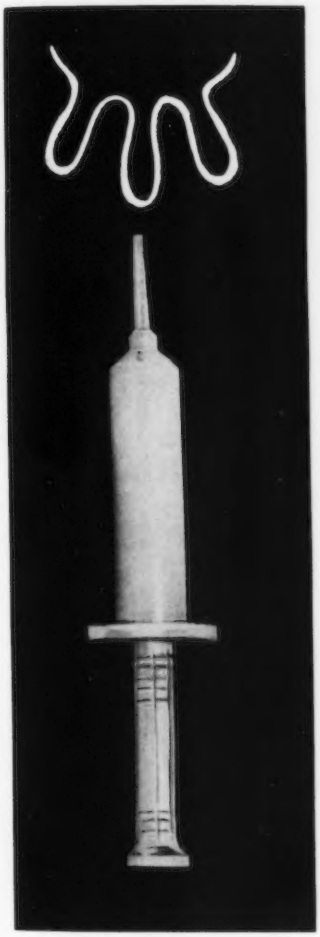

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## in the disposable syringe!

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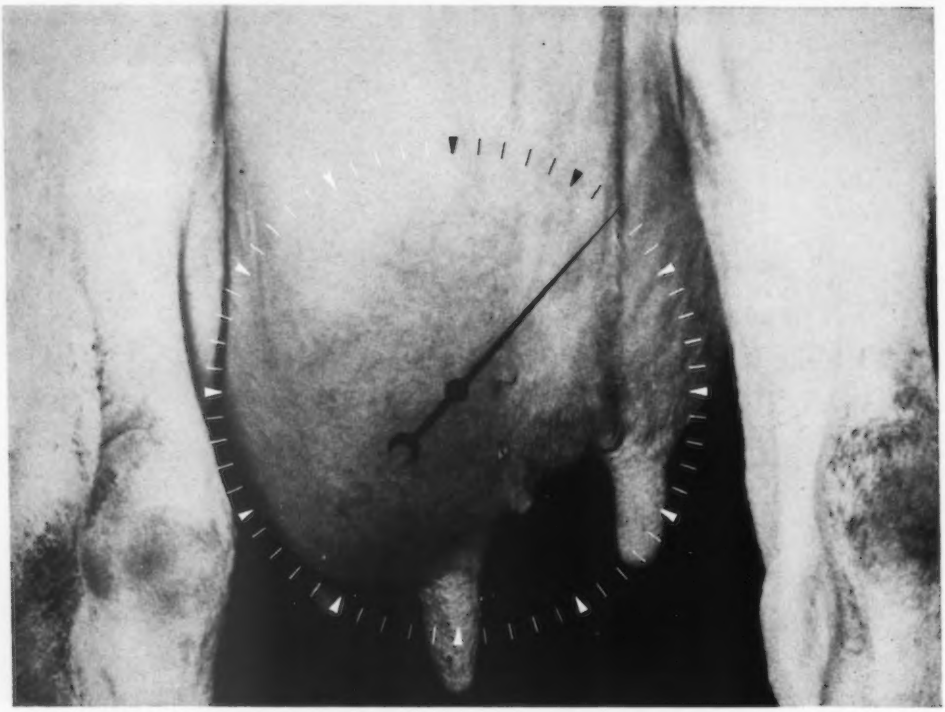
**Reference:** 1. Vet. Med. 48:269 (July) 1953.



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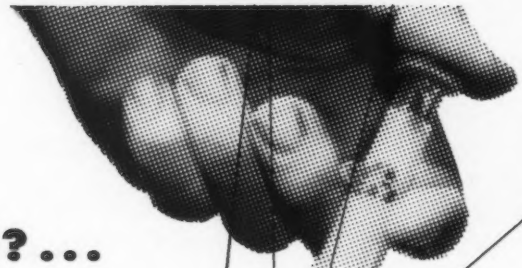

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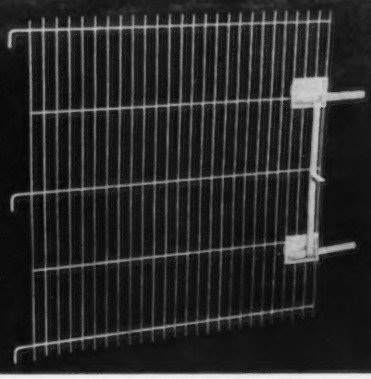

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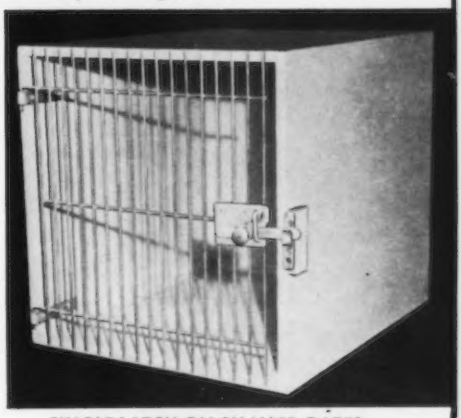

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# Constant research gives your veterinarian new and better drugs

*This Squibb advertisement in full color is one of a series appearing in the Farm Quarterly stressing the necessity of proper diagnosis by veterinarians*

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Many of the approximately 900 new veterinarians, who graduate this spring, will soon be putting up their signs . . . ready to serve you in bringing better health to your livestock.

## ...to help protect your livestock's health

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Highly-skilled Squibb scientists — using latest and most exacting techniques known to science—continually seek new and improved veterinary drugs, new applications of older ones.

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He brings to your farm — on call — full benefits of modern scientific research *to back up your management practices* in guarding your livestock's health, and your investment.

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*Veterinary Department*
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***For prompt, accurate diagnosis, always consult your veterinarian.***

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*the small-animal biologic that is*

*Modified Live Virus*
*Chick Embryo Origin*
*Vacuum Dried*

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- **tested on highly susceptible ferrets to assure potency and safety.**
- **tested for purity and stability under refrigeration.**
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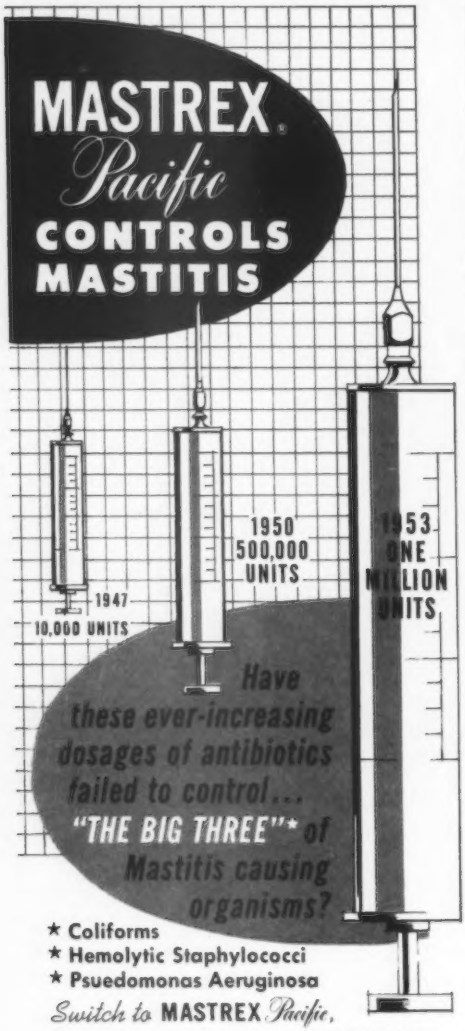


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the new, sure way to control Mastitis. Quick, safe results with the same small dosage. Results against many of the organisms that antibiotics do not control, including "THE BIG THREE." Non-toxic; positively no contamination of milk; Stable under all storage conditions. Sold only to graduate Veterinarians.

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## AVMA President to Speak at President's Banquet

We are indeed fortunate in having Brigadier General James A. McCallam, president of the American Veterinary Medical Association, as our special guest at the President's Banquet and Dinner-Dance, Tuesday evening, June 22d.

The well-known and admired prexy of the

BRIGADIER GENERAL J. A. McCALLAM
*AVMA President*

AVMA is also an engaging speaker, and we urge members to make early reservations for this occasion.

General McCallam has had a long and distinguished career with the Veterinary Corps, United States Army. He received his veterinary degree from the University of Pennsylvania in 1917, and the same year was commissioned a 2nd Lieutenant in the Veterinary Corps, Regular Army.

He graduated from the Army Veterinary School in 1924, and the Army Medical Field Service School the following year. Later he served with the 6th Army in Australia, New Guinea, Leyte, Luzon, and with the occupation forces in Japan.

General McCallam was awarded the Legion of Merit and the Bronze Star Medal for his outstanding service in the Southwest Pacific theatre.

At the time of his selection to head the Army Veterinary Corps in 1948, the U. S. Senate confirmed his promotion to the rank of brigadier general. He is the second military veterinarian and the first general officer to hold the office of president of the AVMA.

General McCallam retired from active duty last year. He resides in Washington, D. C.

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Dr. and Mrs. Rollin R. Smith are the proud parents of a daughter, Phyllis Ann, born in February.

# THE CALIFORNIA VETERINARIAN

## MAY-JUNE, 1954

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**Volume 7** **Number 5**

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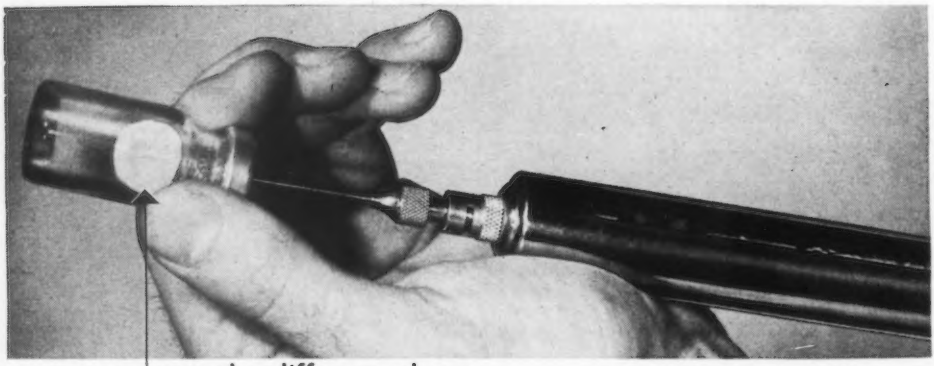

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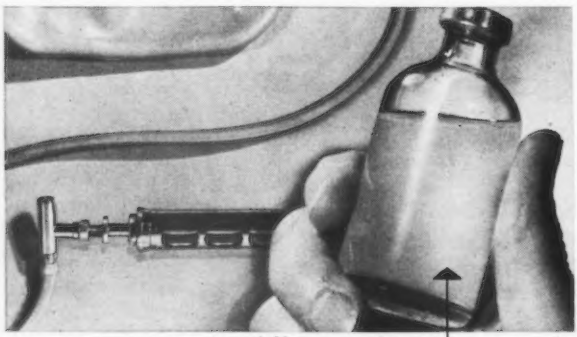

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**Only YOU Can Buy Viracine** . . . Viracine is not available to the lay under any label. You can show Viracine's difference to your clients. They, too, will quickly see that this vaccine is unlike any other hog cholera vaccine. Viracine comes in 5, 25, and 50 dose packages, complete with diluent. Order from your Cutter Veterinary Supplier.

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**CUTTER** Laboratories
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# Equine Laparotomy

W. J. ZONTINE, D.V.M., and W. F. HUGHES, D.V.M.*

*Lancaster, California*

In spite of the modern methods of sterilization, improved aseptic surgical technique, and the large variety of antibiotics at our disposal, a prejudice against laparotomy in the horse still exists in the veterinary profession. It might be stated that few indications exist for this type of equine surgery. However, in this locality we have long recognized its necessity due to the high mortality from intestinal impactions. Unfortunately, most impactions observed at autopsy are found at the diaphragmatic flexure of the large colon where they are not accessible by rectal palpatation. Death is inevitable as these hard masses defy reduction by most therapeutic means, except rectal massage.

Recently, 2 cases were presented which forced us to attempt this type of surgery. A yearling Shetland pony, much too small for rectal palpation, was presented with a history of colic of three days' duration. There had been no bowel passages in this period, and considerable intestinal flatulence was present. Twelve hours after therapeusis with agents ranging from oils to lentin had failed to produce results, we decided to do a laparotomy.

### Operative Technique

Pentobarbital sodium was used intravenously for anesthesia. Saline and dextrose solution was administered intravenously continuously during surgery. The left flank was prepared by clipping, scrubbing, and skin antisepsis. Aseptic technique was adhered to as rigidly as possible throughout the operation. A liberal vertical incision was made through the skin and underlying tissues to the external oblique muscle. The muscles were separated, by blunt dissection, in the direction of their fibers and the peritoneum was incised with scissors. The small colon ballooned up into the operative area and was aspirated with a sterile needle. The impaction was found in the proximal portion of the small colon. It was moved away from the site of occlusion by massage and broken down by manual manipulation.

The intestines were dusted with surgical aureomycin powder. The peritoneum and transversus abdominis were sutured with No. 1 chromic gut; No. 2 chromic catgut was used on the remaining two muscular layers. The skin and fascia were sutured together with nylon and the incision covered with collodion.

After-care consisted of penicillin daily for five days, mild laxatives, and a light ration of good alfalfa and a mixture of bran and rolled oats. Healing was by first intention. Bowel movements occurred immediately following recovery from anesthesia. However, the wall of the colon may have been injured and its elasticity impaired because several months later the condition recurred and again it was necessary to operate. The laparotomy incision was made approximately 1 inch posterior to the former incision. Very little scar tissue was found in the underlying fascia and musculature. The recovery was again complete but quite stormy, requiring nearly ten days.

The second case was also a pony, three months of age, small enough to fit quite comfortably on the small animal surgical table, where better aseptic technique than in the previous case was possible. Again, the impaction was found in the small colon and broken down by manual manipulation. The wound healed by primary union and recovery was uneventful.

### Discussion

Both subjects were small which made the task of locating the impaction much simpler than it would be in a large horse, especially if the obstruction were in the diaphragmatic flexure of the colon. However, the point to be emphasized is that laparotomy in the horse is possible and justified.

Reports indicate that this type of surgery is relatively common in recent years in our better veterinary schools where the finest of facilities are available. Farquharson[1,2] relates a number of successful laparotomies performed on the horse. Woolsey[3] reports a successful operation on a newborn foal to relieve impaction. Behrens,[4] at the Veterinary College of Hannover, recommended laparotomy via the flank in horses and the vagina in mares to break up obstructions in the small colon. An enterotomy in a pony is described by Conner[5] in the treatment of impaction. Jasper and Cupps[6] utilized a laparotomy in experimental procedures dealing with a cecostomy in the horse. The only published article found dealing with successful equine abdominal surgery in general practice was done in pre-antibiotic days by Aitken.[7] In an unpublished report, Hird[8] relates a successful equine intestinal anastomosis performed in his practice.

*(Continued on page 32)*

*Drs. Zontine and Hughes are general practitioners in Lancaster, Calif.

[1]Farquharson, J.: Abdominal Surgery in the Horse, *J.A.V.M.A.*, 97 (1940), 606.

[2]Farquharson, J., and Delahanty, D. D.: Fetal Dystocia and Successful Cesarean Section in the Mare, *J.A.V.M.A.*, 120 (1952), 129.

[3]Woolsey, J. H.: Surgical Relief of Impaction in the Newborn Foal, *J.A.V.M.A.*, 117 (1950), 46.

[4]Behrens, Dr.: Breaking up Manually Obstructions in the Small Colon, Following Laparotomy, "Deutsche tierärztl Wchnschr.," 56 (1949), 259-260.

[5]Conner, G. H.: Enterotomy in a Pony, *Iowa State College Vet.*, 2 (1952), 89.

[6]Jasper, D. E., and Cupps, P. T.: Cecostomy in the Horse, *J.A.V.M.A.*, 117 (1950), 456.

[7]Aitken, W. A.: Equine Abdominal Surgery in General Practice, *Iowa State College Vet.*, 3 (1948), 142-145.

[8]Hird, J. J.: Personal communication, 1953.

# Convention Speakers

## B. T. SIMMS

Dr. Simms, Chief of the Animal Disease and Parasite Research Branch, Agricultural Research Service, U. S. Dept. of Agriculture, since January 1, 1954, was previously Chief of the former Bureau of Animal Industry. He is a graduate of Alabama Polytechnic Institute. He was on the staff of the North Carolina A & M College for two years, and spent a year in graduate work in pathology and bacteriology at the University of Chicago. Dr. Simms later went to the Oregon State Agricultural College. During the 25 years he spent at the College, he organized and served as head of the Department of Veterinary Medicine. For seven years, Dr. Simms was in charge of the USDA Regional Animal Disease Research Laboratory at Auburn, Alabama. Under his leadership a practical management method for controlling coccidiosis was developed. His research publications are numerous, including papers on brucellosis, liver flukes, coccidiosis in cattle, goiter in foals, and poisoning of cattle by *Paspalum dilatatum* and *Lathyrus hirsutus*. He is a past president of the American Veterinary Medical Association.

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## H. C. SMITH

Dr. H. C. Smith, D.V.M., is a veterinary diagnostician and field consultant for Allied Laboratories, Inc., Sioux City, Iowa. He graduated from Iowa State College, School of Veterinary Medicine, in 1923, and began practice in eastern Iowa. For 17 years he was associated with one of the ethical biological houses as an assistant laboratory director. He was later head of the Veterinary Research Department, Oklahoma A & M College. For the past decade Dr. Smith has been associated with Allied Laboratories, Inc.

## CHARLES W. FRIEDRICHS

Mr. Charles W. Friedrichs, executive secretary of the San Francisco SPCA and Northern California SPCA. He is also director and secretary for the State Humane Association of California, and director-secretary for the American Humane Association. The latter's national headquarters are in Denver, Colo. Serving as honorary vice-president, The American Humane Education Society, and western regional director of EAR (Emergency Animal Relief), Mr. Friedrichs still finds time to edit the SPCA's magazine, *Our Animals*, and is also active in several San Francisco clubs and groups.

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## C. EDWIN HOFMANN

Dr. Hofmann was a graduate of Kansas State College, in 1940. He spent two years with the North Carolina Department of Agriculture in disease investigation work. He practiced for several years in Suffolk, Virginia; then spent ten years in practice in Tulsa, Oklahoma. He is a member of A.A.H.A., and past-president of the Tulsa Veterinary Medical Association, and Oklahoma Veterinary Medical Association.

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## M. K. JARVIS

Dr. M. K. Jarvis graduated from Kansas State in 1940. He was on the faculty at Colorado A & M Veterinary College for two years, and was later in general practice for seven years. Dr. Jarvis has been with the Corn States Serum Company, Omaha, Nebraska, for five years.

### W. W. ARMISTEAD

Dr. Armistead is Dean of the School of Veterinary Medicine, A & M College of Texas. He was born in Detroit, but has spent much of his life in the Lone Star state, receiving his D.V.M. from A & M College of Texas in 1938. Several years in private general practice followed, after which he became instructor of Veterinary Medicine and Surgery at A & M College. During the war years, Dr. Armistead was an officer in the Veterinary Corps, U. S. Army, seeing service in North Africa and Italy. Returning, he became professor of Veterinary Medicine and Surgery at the College, and was appointed dean last fall. He has written numerous articles for the veterinary journals, and was contributing author on three books. Dr. Armistead was president of the State Veterinary Medical Association of Texas, 1947-48.

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### PHILLIP M. HINZE

Attended Utah State Agricultural College and Colorado A & M. Took a degree in dairy husbandry first and worked as a herdsman at the Utah State Industrial School at Ogden, Utah, for four years before starting his course in veterinary medicine. Was graduated from Colorado in 1948 and came directly from school to the Carnation Milk Farms. Was president of the Washington State Veterinary Medical Association last year.

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## AMVA Convention in Seattle

The 91st annual AMVA Convention will be held in Seattle, August 23-26. The meeting will combine closed circuit television with presentations of scientific papers dealing with all aspects and phases of veterinary medicine.

Headquarters will be the Olympic Hotel, and registration will begin at noon, Sunday, August 22d, in hotels and at convention headquarters.

The tentative program and participants will be published in the July *AMVA Journal*.

## CSVMA Women's Auxiliary June Meeting

June again and convention time! This year the annual meeting is in San Diego, June 20 through 23. As president of the Women's Auxiliary to the CSVMA I extend a cordial invitation to every member and all eligible women to attend.

The local committee—Mrs. F. B. Walker, Jr., Escondido; Mrs. S. M. Dingwall, La Jolla, and Mrs. M. J. Smith, San Diego, with assistance from members of the San Diego County VMA Auxiliary, have planned a splendid social program for your pleasure.

MRS. CHARLES D. STAFFORD

Registration starts at 1:00 p. m., Sunday. Auxiliary headquarters on the mezzanine will be open from 1:00 p. m., Sunday, and 9:00 a. m., Monday and Tuesday. Hostesses will have information on harbor excursions, Grayline tours (Tia Juana, etc.) and baby sitters.

Monday, 9:30 a. m.—Women's golf tournament.

Monday, 1:30 p. m.—Card party and reception.

Tuesday, noon—Auxiliary president's luncheon (via bus, leaving 10:30).

Tuesday, 7:30 p. m.—Join the gentlemen at their banquet.

Wednesday, 1:00 p. m.—Old Time Pit Barbecue.

Doesn't the organization and detail of the program suggest a successful meeting for all in attendance?

I am pleased to report the Women's Auxiliary to the CSVMA has enjoyed a year of continued growth. Our program of activities, all projects affiliated with the profession in which we are all vitally interested, is of real value in making the public more aware of the services rendered by veterinarians in many diversified fields. To maintain progress the enthusiasm and support of every eligible person is essential.

I sincerely hope all future officers of the auxiliary will receive the same cooperation that I have had and appreciated during my term of office.

MARIE STAFFORD (Mrs. Charles D.), *President*

## CONFERENCE SPEAKERS

W. W. Armistead, D.V.M., Dean, School of Veterinary Medicine, Texas A. & M., College Station, Texas.

Hugh S. Cameron, D.V.M., Ph.D., School of Veterinary Medicine, University of California, Davis, Calif.

John Christensen, D.V.M., Ph.D., School of Veterinary Medicine, University of California, Davis, Calif.

Ben H. Dean, D.V.M., California State Department of Public Health, Berkeley, Calif.

Paul D. Delay, D.V.M., Live Stock Pathologist, California State Department of Agriculture, Sacramento.

Charles W. Friedrichs, Executive Secretary, SPCA, San Francisco, Calif.

Carroll L. Hare, D.V.M., Practicing Veterinarian, San Fernando, Calif.

Phillip M. Hinze, D.V.M., Carnation Milk Farms, Carnation, Wash.

C. Edwin Hofmann, D.V.M., Practicing Veterinarian, Tulsa, Okla.

M. K. Jarvis, D.V.M., Corn States Serum Co., Omaha, Neb.

Donald E. Jasper, D.V.M., Ph.D., School of Veterinary Medicine, University of California, Davis Calif.

Mark B. Lindsay, D.V.M., Practicing Veterinarian, Santa Ana, Calif.

E. E. Lund, D.V.M., Parasitologist, Animal Disease and Parasite Research Branch, Agricultural Research Service, Beltsville, Md.

J. A. McCallam, D.V.M., President, American Veterinary Medical Association, Chicago, Ill.

Lawrence Minsky, D.V.M., Practicing Veterinarian, San Gabriel, Calif.

Paul D. Pattridge, D.V.M., Practicing Veterinarian, Golden, Colo.

O. W. Schalm, D.V.M., Ph.D., School of Veterinary Medicine, University of California, Davis, Calif.

B. T. Simms, D.V.M., Chief of Branch Animal Disease and Parasite Research Branch, U.S.D.A., Washington, D. C.

H. C. Smith, D.V.M., Veterinary Diagnostician and Field Consultant, Allied Laboratories, Inc., Sioux City, Iowa.

### LOCAL ARRANGEMENT COMMITTEE

| | |
|---|---|
| CYRIL J. PADFIELD | ERLING R. QUORTRUP |
| STUART M. DINGWALL | FRED B. WALKER |
| GLEN G. CROSBIE | HERMAN R. ROSSOLL |
| LESLIE O. FOELSCHOW | CHAS. R. SCHROEDER |
| NORMAN N. JEROME | MITCHELL J. SMITH |
| GLEN H. KENASTON | BEN R. STAHMANN |
| ROBERT J. MCFARLAND | GEO. S. TROXELL |

**ENTERTAINMENT**
**Tuesday, June 22, 1954**

**Women's Tour and Luncheon**—10:30 a.m. La Jolla Beach and Tennis Club. Returns to hotel at 5 p.m. (Mrs. A. R. Puterbaugh).

# PROG

## SIXTY-SIXTH ANNUAL M TIN
## STATE VETERINARY DIC

### U. S. GRANT HOTEL, SAN IEG

**MONDAY, JUNE 21, 1954**

GENERAL SESSION

***Morning***

9:00 - 12—Registration and Exhibits.

***Afternoon***

Venetian Room

*Chairman,* C. J. PADFIELD

1:30—Invocation—Rev. S. D. McBride.
1:40—Welcome—Hon. John D. Butler, Mayor of San Diego.
1:50—Response—Paul D. DeLay.
2:00—"Veterinary Education and Opportunity," Donald E. Jasper.
2:30—"Research of Practical Value to the Practicing Veterinarian," B. T. Simms.
3:30—"Hormone Therapy in the Bovine," Phillip M. Hinze.
5:00—Annual Business Meeting of the CSVMA.

**ENTERTAINMENT**
**Monday, June 21, 1954**

**Deep Sea Fishing**—To Coronado Islands. Leave 2:30 a.m. Participants eligible for $25,000 Yellowtail Derby. Other boats available by special arrangement. Send $9.00 for reservation to Dr. L. O. Foelschow, 907 Palm Ave., Palm City. Boats return at 12 noon.

**Men's Golf Tournament**—8:00 a.m. to noon, La Jolla Country Club (Dr. B. R. Stahmann).

**Women's Golf Tournament**—10:00 a.m. to noon, Presidio Short Course. (Irons only—green fee $.80 including clubs and balls. Mrs. B. R. Stahmann).

**Women's Card Party**—Palm Court, U. S. Grant Hotel —Door prizes, table prizes, refreshments (Mrs. G. H. Kenaston and Mrs. Charles Schroeder).

**TUESDAY, JUNE 22, 1954**

SMALL ANIMAL SESSION

Venetian Room

***Morning***

*Chairman,* H. R. ROSSOLL

9:00—"Elongation of Soft Palate in Brachycephalic Breeds" (Movie and Talk), Carroll L. Hare
10:00—"Shortcuts and Timely Hints for Small Animal Practitioners," C. Edwin Hofmann.
11:00—"Clinical Aspects of Psittacosis," Lawrence Minsky.
11:30—"Public Health Regulations on Psittacosis," Ben H. Dean.

***Afternoon***

*Chairman,* W. W. MEYERS

1:30—"Effects of Nutrition on Antibody Production," M. K. Jarvis.
2:30—"Chinchillas," Mark B. Lindsay.
3:30—"Progress in Blackhead in Turkeys," E. E. Lund.

# GRAM

## MEETING OF THE CALIFORNIA MEDICAL ASSOCIATION

## SAN DIEGO, JUNE 21-23, 1954

LARGE ANIMAL SESSION
Riviera Room

**Morning**

*Chairman,* E. R. QUORTRUP

9:00—"Unusual Field Cases in Some Cattle Diseases," H. C. Smith.
10:00—"What Is Known About Bloat," W. W. Armistead.
11:00—"Diagnosis and Treatment of Anaplasmosis, John Christensen.

**Afternoon**

*Chairman,* F. B. WALKER

1:30—"Recent Work on Brucellosis," Hugh S. Cameron.
2:00—"Problems in Purebred Beef Cattle Practice," Paul D. Pattridge.
3:00—"Whiteside Test for Mastitis" (Mr. David Gray, co-author), O. W. Schalm.
3:30—"Difficult Breeding and Its Control," Phillip M. Hinze.

**PRESIDENT'S BANQUET and DINNER DANCE**
**Tuesday, June 22, 1954 — 7:30 P. M.**
Venetian Room
Dr. F. B. Walker, *Chairman*
Dr. G. H. Kenaston, *Toastmaster*
Brig. Gen. J. A. McCallam, *Guest Speaker*

**WEDNESDAY, JUNE 23, 1954**

SMALL ANIMAL SESSION
Venetian Room

**Morning**

*Chairman,* M. J. SMITH

9:00—"A Practical Method of Aseptic Surgical Technique," C. Edwin Hofmann.
10:00—"Diseases of the Feline," M. K. Jarvis.
11:00—"SPCA and the Veterinarian," Chas. W. Friedrichs.

LARGE ANIMAL SESSION
Riviera Room

**Morning**

*Chairman,* CHAS. R. SCHROEDER

9:00—"Surgical Repair of Fractured Penis in Bull," Paul D. Pattridge.
10:00—"Unusual Aspects of Some Swine Diseases," H. C. Smith.
11:00—"Corrective Horseshoeing," (Illustrated) W. W. Armistead.

GENERAL SESSION

2 P. M.—Clinical Demonstrations, San Diego Zoo. Dr. Glen G. Crosbie, Veterinarian, San Diego Zoological Society, in charge. W. J. Dedrick, M. J. Smith, E. R. Quortrup, R. Immenschuh, A. N. Davis.

## Program—Women's Auxiliary

### U. S. Grant Hotel, San Diego

### June 21-22-23, 1954

OFFICERS

MRS. CHARLES D. STAFFORD ..... President
MRS. THOMAS EVILLE ..... First Vice President
MRS. CHARLES IRVIN ..... Second Vice President
MRS. JOHN O'BRIEN ..... Secretary-Treasurer

MRS. F. B. WALKER, *Chairman of Arrangements Committee*

### *Schedule of Social Events*

**SUNDAY, JUNE 20, 1954**

Registration from 1:00 P. M.

5:00 - 7:00 P. M.—Cocktails, courtesy San Diego County Association, Governor's Suite, Seventh Floor.

**MONDAY, JUNE 21, 1954**

9:30 A.M.—Women's Golf Tournament, Presidio Park.
Harbor excursions.
Grayline tours (Tia Juana, etc.).
Shopping.
1:30 P.M.—Card Party, Palm Court, U. S. Grant Hotel.

**TUESDAY, JUNE 22, 1954**

12 Noon —Auxiliary President's Luncheon — La Jolla Beach and Tennis Club. (Via Bus, leaving 10:30.)
7:30 P.M.—C.S.V.M.A.'s President's Dinner Dance —U. S. Grant Hotel.

**WEDNESDAY, JUNE 23, 1954**

1:00 P.M.—Old-time Pit Barbecue—San Diego Zoo.
2:00 P.M.—Tour of Zoo, Museums, etc., Balboa Park.

*Note*: Sunday, June 20, is the only day during the convention that Jai Alai games are running in Tia Juana. (7:30 P.M.) Also horse racing, starting at noon in Tia Juana on Sunday. Greyhound bus leaves every 15 minutes around the clock.

**OLD TIME PIT BARBECUE**
San Diego Zoo
**Wednesday, June 23, 1954—1 P. M.**
*Bus Service from Hotel and Return*

**HOTEL RESERVATIONS**
*For reservations write directly to the*
U. S. GRANT HOTEL
San Diego, California

# Exhibitors at San Diego Convention

*This year of 1954 will be a banner one for the number and quality of exhibits. Here you will see displays of the most modern equipment, new products, medicaments and recent additions to pharmaceutical lines that open new avenues in the field of Veterinary medicine. Visit the representatives of these reliable firms who supply your professional needs. Our exhibitors not only add to the success of our Conventions, but aid materially by contributing editorially to "The California Veterinarian," and by supporting the publication through their advertising.*

## ARMOUR VETERINARY LABORATORIES

Armour will feature Andrenomone, P.O.P., P.L.H., Adrenocillin, Dynamone, and perhaps several other new products which will be introduced by Convention time.

## BANES LABORATORY

The specialties which Banes Laboratory will exhibit include professional liquid soaps, detergents, medications for the skin, insecticides, germicides, fungicides, parasiticides and disinfectants.

## H. C. BURNS COMPANY, INC.

H. C. Burns Company will feature: Buco specialties, Aqua Vite, Bucotone, Bucotox, BuMycin, BuPekcin, Chloroint, Enterobols, Fleadane, Fungoint, Demsardex, Rumade, Rumicone, Bovibac, Qua Septic, Calcidose, Calcidex, Calciphos, Uramole, Vita Drops, VitaMinOral, Uritin, Spasmolin, Cellulax, Demotox, CalGlyPhos, Geri Form, etc.

Also the exclusive lines of other manufacturers such as: Carson's Fungicidal Flea and Louse Powder, Fungi RX, Gamma RX, Screwworm Bomb; Thompson's Hex-Em Cubes and Sticks; Pacific Laboratories' Mastrex; ACTH; Marvel Metal Detector, and other equipment.

## CALIFORNIA VETERINARY SUPPLY CO.

The following products manufactured by Norden Laboratories will be exhibited: Mitox, effective therapy of Otitis caused by mites, bacteria, fungi. Fleavol Shampoo, kills lice and fleas as it cleans. Fomene, quick relief for frothy bloat; Canolene, Improved, contains Lindane and pure rotenone, outstandingly effective against demodectic, sarcoptic and psoroptic mange in dogs, and ear mites in all animals. Norcalciphos Improved is an entirely new parenteral for use in milk fever and multiple deficiencies, combines calcium, phosphorous, magnesium and dextrose. Rumenade with Culture Nutrients, combines Rumen Bacteria and Culture Nutrients for outstanding effectiveness.

## CALO DOG FOOD COMPANY, INC.

The products that Calo will display are Calo Dog Food No. 1 can and special 3¾-lb. can, Calo Cat Food No. 1 can and 8-oz. can, and Calo Horsemeat No. 1 can.

## CENTRAL CITY CHEMICAL CONSOLIDATED

Sharpe & Co., in conjunction with Central City Chemical Consolidated, will display Haver-Glover pharmaceuticals, as well as products from Ashe Lockhart, Corn States Serum Company and Fromm Laboratories.

## CUTTER LABORATORIES

Viracine, the only tissue-cultured hog cholera vaccine available, will be featured by the Cutter Laboratories. Viracine's test tube method of production in Laboratory Media assures a modified live virus vaccine that can be, and is, carefully controlled and checked for virulence, safety and potency. Hogs vaccinated with Viracine and anti-hog cholera are solidly protected against hog cholera.

## DESITIN CHEMICAL COMPANY

Desitin Ointment is the pioneer in external cod liver oil therapy for diaper rash, slow healing wounds, burns of all degrees, lacerations, hemorrhoids and fissures. Also displayed will be Desitin Powder; Hemorrhoidal Suppositories with cod liver oil, and Desitin Lotion, the original cod liver oil lotion, soothing, protective, mildly astringent and healing, in non-specific dermatitis, pruritis, poison ivy, etc.

## DOHO CHEMICAL CORPORATION

The Doho Chemical Corporation and its subsidiary, Mallon Chemical Corp., will exhibit Auralgan, for relief of pain and itching in otorrhea, canker and ear mites; Otosmosan, for suppurating ears, fungus conditions and all other forms of aural dermatomycosis; Rhinalgan, the pleasant-tasting nasal decongestant, and new Rectalgan, the liquid topical anesthesia for immediate symptomatic relief of pain and itching, in hemorrhoids and for many other uses pre- and post-operatively.

## FORT DODGE LABORATORIES, INC.

Fort Dodge Laboratories will exhibit: Distovax; Can-O-Vax, Anti-Canine Distemper Serum, and Anti-Infectious Canine Hepatitis Serum; Anti-Feline Distemper Serum; Fel-O-Vax; M-L-V (our new hog cholera vaccine; Kemithal; Xylocaine Hydrochloride; Decalphos; Soxipent Improved; Soxipent Stronger; Cal-Dextro Solution; Carafen Syrup and Tablets; Suldistat Plus, and Longicil Fortified.

## FROMM LABORATORIES, INC.

Displaying their recently developed oil-adjuvant vaccines, and also Distemperoid, Viablized Chick Embyro Origin Canine Distemper Vaccine, and Bivalent Serum, this well-known firm brings products of merit to the Convention.

## HILL PACKING COMPANY

Hill Packing Company will display their five Prescription Diets, as well as their newest diet, C/D, a successful contribution to feline therapy. Hill's other products of interest to veterinarians will complete the exhibit.

## JENSEN-SALSBERY LABORATORIES, INC.

Jen-Sal will feature a new line of Minitabs formulated and produced especially for puppies, miniature breeds and kittens—MWR-352, a scientifically formulated ration additive—and a new Canine Wart Vaccine produced exclusively from canine tissues—as representatives of a complete line of products designed for small animal practitioners.

For the large animal practitioners we will display our new D.C.M. Special Concentration—Profloran, a valuable treatment of rumen disfunction— and Parenterin, a new injectable laxative.

## KENDALL FOODS, INC.

This California manufacturer will feature Walter Kendall "Fives," dry baked dog food identified by five different colors, five different shapes and five different flavors. In their line there are four separate items—biscuits, regular kibble, quick-mix kibble, and "complete" dog meal. Full information as to the 33 ingredients used, and the nutritional qualities of the foods will be available.

## LEDERLE LABORATORIES

You are cordially invited to visit our exhibit, where you will find our representatives prepared to give you the latest information on LEDERLE products.

## S. E. MASSENGILL COMPANY

You are invited to visit the S. E. Massengill Company booth. Myothesia, the new unusually smooth-acting general anesthetic for small animals will be featured. Adrenosem, the new Massengill systemic hemostatic, will also be discussed. Complete information will be available on Keraspray, a new treatment for keratitis.

## PACIFIC LABORATORIES, INC.

Pacific Laboratories, Inc., will feature the latest developments on Mastrex, their new and effective treatment for Bovine Mastitis. Other indications for Mercosterol, the active ingredient of MASTREX, will be shown with reprints and complete technical data. Also displayed will be ACTH-PACIFIC and its latest uses in veterinary practice.

## PARKE, DAVIS & COMPANY

Parke, Davis & Co. will feature Surital Sodium, their ultra-short-acting anesthetic for both small and large animals. Also on exhibit will be Chloromycetin, the broad spectrum antibiotic; S-R-D, the Penicillin Dihydrostreptomycin combination; surgical dressings, and other specialties. Literature will be available.

## PFIZER LABORATORIES

This firm will feature and demonstrate the new highly dispersible Terramycin Animal Formula for Mastitis, and the new Terramycin Soluble Powder for use in most domestic animals, including adult ruminants. Many other new dosage forms of Terramycin will be on display, together with literature containing practical information on dosage and indications.

## PITMAN-MOORE COMPANY

Pitman-Moore Company will feature several recent additions to their pharmaceutical and biological lines. All members of the Association are invited to visit the display and become better acquainted with Virogen D-H, Vimino and other specialties. Mr. Paul Fledderjohn will be in charge of the exhibit.

## QUAKER OATS COMPANY

The Quaker Oats Company plans to show the full Ken-L Products line. The Ken-L Biskit Kibbled and the Ken-L Biskit Meal in the two-pound boxes, and the 25-pound bags; the Ken-L Ration canned dog food in the one-pound cans; and the Chappel's Horsemeat in the 15½-ounce cans.

## E. C. SMITH COMPANY—D. W. MORRIS

Providing information on liability insurance policy for California Veterinarians. Also accident, sickness and hospitalization. Will answer all questions pertaining to these two group policies written especially for CSVMA.

## E. R. SQUIBB & SONS

The Squibb exhibit will feature Prolacthyl HP, a new highly purified ACTH; Ophthaine, a local anesthetic, and Distrycillin Ointment, a mastitis treatment in a disposable syringe. In addition, other pharmaceutical products having application in the field of veterinary medicine will be displayed.

## STANDARD SURGICAL COMPANY

Standard Surgical Company, Long Beach, will exhibit their line of equipment, including Assistant instruments, Syringes, Hypo needles, Suture needles, Thermometers, Otoscopes, Hyfricators, Sterilizers, Autoclave, X-Ray machine, Mayo stand and Footstool.

### STANTON SCIENTIFIC EQUIPMENT CO.

This Glendale manufacturer will exhibit the Handy Resuscitator, an ingenious breathing machine which automatically administers artificial respiration to small animals. The instrument is a great adjunct to the skill of the Veterinarian, giving him the required assurance of proper maintenance of a safe oxygen level during critical cases which demand his undivided attention to the surgery or treatment at hand.

### TRAVENOL LABORATORIES, INC.

Trevenol Laboratories will exhibit Piromen, which is a sterile, nonprotein and nonanaphylactogenic Pseudomonas polysaccharide prepared in colloidal dispersion for parenteral use. Chemical fractionation removes protein and other cellular elements. It is recommended for use in treating dermatologic conditions in the dog and other small animals.

### UPJOHN COMPANY

The Upjohn exhibit plans to work Cortical Products, namely: Cortef Tablets, Neo Cortef Ointment, Neosone, and Cortisone C.T. and S.A.S. Their product, Neosone, is a new combination of cortisone and neomycin sulfate for simultaneous dual ophthalmic therapy; cortisone to counteract inflammation, neomycin to combat infection.

### VICTORY PACKING COMPANY

Victory Packing Company will exhibit their full line of U. S. inspected pet foods. These include Kal Kan Horse Meat with gravy, which comes packed in No. 1 and buffet cans, and Thoro-Fed balanced dog food, the latter guaranteeing more protein than any other well known or inspected balanced canned dog food on the market. We also will display our Thoro-Fed Dry Meal and Bits, and mention our fresh inspected horse meat.

### WESTERN CONDENSING COMPANY

Western Condensing Company will exhibit Peebles' Dog-Kit, which is now in concentrated liquid form. This unique milk formula has the fats, proteins and carbohydrates and levels comparable to those of bitch's milk, plus ample quantities of vitamins and minerals. Dog-Kit is ideal for building up underweight and ailing dogs, bitches during pregnancy and lactation, and for weaning and bottle feeding pups.

### WESTERN SURGICAL SUPPLY CO., LTD.

This Los Angeles concern will display Veterinary Instruments, Tables and Veterinary supplies of all kinds.

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## Examination June 24, 25 and 26

The Board of Examiners will hold an examination for the licensing of qualified veterinarians June 24, 25 and 26 in the Mirror Building, South Spring Street, Los Angeles, Calif.

## Activities of Women's Auxiliary to the CSVMA

Recommendations to make more money available for student loans as well as to increase the donation to the Medical Research Association of California were important actions taken by the Executive Board of the Women's Auxiliary to the California State Veterinary Medical Association held Tuesday, January 26th, at the home of Mrs. T. J. Hage in Davis. Mrs. Charles Stafford, president, conducted the meeting, which was correlated to the Mid-Winter Conference of the California State Veterinary Medical Association.

Delightful social feature of the meeting was a luncheon held in the California Inn on the Davis campus. Arrangements were made by the wives of the faculty of the School of Veterinary Medicine, University of California at Davis, with Mrs. R. Corde presiding. Mrs. Corde of the faculty division introduced Mrs. Stafford, who in turn presented her officers. More than 75 women were present at the luncheon.

With the increase of feminine attendance at the Mid-Winter Conference, the board unanimously recommended that the WACSVMA sponsor a no-host event at the January meeting. The board further recommended that a chairman be appointed by the president each year to arrange this function and that wives of senior students in the School of Veterinary Medicine at Davis be invited.

Mrs. T. B. Eville announced that she is planning a campaign for more local organizational interest by "Vet" wives since there are 19 local men's veterinary associations in the state but only five auxiliaries have been instituted.

Highlights of the women's program during the June Convention of CSVMA in San Diego were presented by Mrs. F. B. Walker.

In attendance at the January meeting were Mrs. Charles Stafford, president; Mrs. Thomas Eville, first vice-president; Mrs. Charles Irvin, second vice-president; Mrs. John O'Brien, secretary-treasurer, and Mesdames T. J. Hage and H. I. Ott, past presidents, and Mrs. F. B. Walker, chairman of the June convention arrangements committee.

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## Dr. B. J. Gray Elected Fort Dodge Vice-President

Dr. B. J. Gray, director of the Fort Dodge Laboratories biological laboratory, has been elected a vice-president of the company. Dr. Gray received his veterinary medical degree from Iowa State College in 1943 and joined the Fort Dodge staff in 1944.

In February of this year he received the distinguished community service award of the Fort Dodge (Iowa) Junior Chamber of Commerce, and was later named by the Iowa State Junior Chambers of Commerce as the "outstanding young Iowan of the year."

## Report from our Foreign Correspondent, Col. R. J. Foster

(EDITOR'S NOTE: *From overseas dispatches have been coming to* THE CALIFORNIA VETERINARIAN *from our good friend, Col. R. J. Foster, touring Europe with Mrs. Foster. Here are some highlights of their experiences.*)

Arrived Palma by boat from Barcelona and have a de luxe suite with room and three meals per day, including tax and service, for $11.29—450 pesatas. At one hotel across the

way, for two in one big room and meals, 257 pesatas, $6.50, but as we are registered here and comfortably settled for three weeks, will stay put.

So you can see, we live well in Spain. There are about 20 English-speaking couples here, and in Palma about 100 Americans.

We are developing into enthusiastic Volkswagen bugs. It runs 30-35 miles per gallon most comfortably. Packs all our baggage—six pieces and extras—easy to ride and steer, and can run all day. One day, Geneva to Avignon, 540 klms., on 9 gallons of gas. We hope to take it back to the states. Had a tough drive from Heidelburg south through Swiss to Spanish border; snow and blizzard all the way.

Spent an interesting week in Barcelona, one week in Madrid, and go from here to Valencia by boat, taking our Volkswagen right along—then South: Granada, Seville, Malaga, Jerez, Gibraltar, maybe to North Africa, but must be back in Madrid by April, as I expect to get with the Director of Game Commission for a 5-day Ibex (wild goat) hunt de luxe. Then off for the Riviera in France and then on to Italy, etc. However, our schedule is not firm, as with the Volkswagen we can go where we please, changing our minds at will.

We are meeting many Army friends, including a few Generals. I am getting a 3-piece (fine material) blue gabardine suit tailored here for $35. Had a sports coat and flannel trousers made in Barcelona for $41. Mrs. Foster is shopping to choose a tailor to make her a 3-piece suit, coat and skirt and long coat, for $50. Can't afford not to take advantage of the cheapest and best buys in Europe. Cloth excellent.

Sherry wine is our daily diet at 75 cents, 95 cents and $1 per bottle. *The best. Oh, la la! No scotch or bourbon!* Tell Dr. Arburua he should come and enjoy Spain and that he would not have to use the sign language as we do.

I took the picture (reproduced here) the day we went to Toledo, Spain, to see the ruins of the famous Alcazar, done during the Franco Revolution. Passed by this veterinary hospital, so got out and took the picture. The inside looked more like a horse-shoeing shop, but it was a horse hospital, or clinic—or I should say, burro clinic.

Spending a week here (Napoli, Italy), then back to Rome until May 13th, when we go north—Florence, Venice, Milan, etc., until June, then Switzerland and back to Heidelburg. Had two good months in Spain and Easter Week in Nice. The Volkswagen is a fine car to travel in, with gas in Italy at $1 per gallon. Yesterday drove to Pompeii, Sorrento and Vesuvius. Well, Adios for now. Hasta la vista.

Dr. G. G. Graham, D.V.M., and Mrs. Graham, were among the interested visitors at the Davis Mid-Winter Conference. Dr. Graham is president of Jensen-Salsbery Laboratories, Inc., Kansas City, Mo., and is a familiar figure at CSVMA meetings. In fact, he has attended more of them than some of our members.

# Use of an Erythromycin-Sulfamerazine Tablet in Small Animal Practice

V. G. CRAGO, D.V.M., and C. C. CRAGO, D.V.M.
*Crago Animal Hospital, Youngstown, Ohio*

Various antibiotic and sulfonamide combinations are commonly employed to treat infections in small animals. Recently, a new oral tablet, Meratycin,* containing erythromycin and sulfamerazine had been used in our practice. Each tablet contains 50 mg. of erythromycin and 300 mg. of sulfamerazine. Erythromycin[1,2] has been used extensively in both veterinary and human medicine to treat infections caused by staphylococci and streptococci. In general, the antibiotic has marked activity against most gram-positive bacteria, on certain gram-negative bacteria and large viruses. The antibacterial effect of erythromycin is supplemented by the addition of sulfamerazine, the outstanding sulfonamide for use in small animals from the standpoint of sustained blood level and activity.[3,4] This combination lends itself well to small animal practice since the broad antibacterial spectrum maximizes results.

The basic dosage schedule used in this study was 1 tablet per 5 lbs. body weight, one-half the total dose given at 12-hour intervals.

### Clinical Study

During this study we endeavored to treat with Meratycin only those cases which had not responded to other commonly used forms of

*Tradename, Pitman-Moore Co., Indianapolis, Indiana.

[1]Jordan, J. E., Brasmer, T. H., and Burch, G. R.: Use of Vetatycin in Small Animal Practice, *The Allied Veterinarian*, Vol. XXIV, No. 3, May-June, 1953, p. 8-9.

[2]Haight, T. H., and Finland, M.: Use of Erythromycin in Bacterial Infections, *New England J. of Med.*, Vol. 247, August 14, 1952, p. 227-232.

[3]Florestano, H. J., and Bahler, M. E.: A Critical Comparison of the Antibacterial Properties of Commonly Employed Sulfonamides, *J. of A.V.M.A.*, Vol. 121, December, 1952, p. 474-477.

[4]Florestano, H. J., Bahler, M. E., Blair, H. E., and Burch, G. R.: Blood Concentrations of Sulfonamides in Dogs, Swine and Cattle, *The North Am. Vet.*, Vol. 34, January, 1953, p. 17-20.

TABLE I—*Type of Case, Dosage Schedule, and Result of Treatment Following the Administration of Meratycin Tablets*

| Animal | Condition Treated | Previous Therapy | Treatment Schedule | Results |
|---|---|---|---|---|
| Cocker 6 months, 20 lbs. | Distemper complex following 2nd distemper injection. Temp. 104 | Symptomatic, Penicillin Streptomycin | 2 tablets bid for 4 days | Temp. normal in 72 hours. Recovery |
| Cocker 4 months, 10 lbs. | Tonsillitis, Temp. 103.8 | Penicillin | 1 tablet bid for 5 days | Recovery |
| English Setter 24 months, 40 lbs. | Distemper complex Temp. 103.6 | None | 4 tablets bid | Vomited tablets. Died of nervous distemper |
| French Poodle 12 months, 45 lbs. | Leptospirosis | None | 5 tablets bid (with blood transfusion | Recovery |
| Fox Terrier 8 years, 18 lbs. | Possible leptospirosis or nephritis. Temp. 104-105, poor prognosis | Penicillin & streptomycin | 2 tablets bid for 3 days | Recovery |
| English Setter 4 years, 18 lbs. | Possible leptospirosis Temp. 105 | Penicillin & streptomycin | 6 tablets bid for 3 days then 4 tablets bid | Temp. dropped after 5th dose. Recovery |
| Siamese Cat 9 years, 10 lbs. | Fever of undiagnosed origin. Temp. 105 | Penicillin & streptomycin Gantrisin & gantricillin | 1 tablet bid for 5 days | Temp. normal after 48 hours. Recovery |
| Wire Terrier 1½ years, 20 lbs. | Septicemia, Temp. 104 | Penicillin & streptomycin Gantrisin & gantricillin | 2 tablets bid for 5 days | Temp. dropped on 3rd day Recovery |
| Beagle 6 months, 12 lbs. | Tonsillitis | None | 1 tablet bid for 4 days | Recovery |
| Cocker 18 months, 25 lbs. | Distemper complex | Penicillin & streptomycin Triple sulfa tablets | 3 tablets bid for 5 days | Recovery |
| German Shepherd 24 months, 60 lbs. | Possible osteomyelitis following bone pinning | Penicillin | 8 tablets bid for 6 days | Recovery |
| Cocker Spaniel 28 lbs. | Possible middle ear infection | All available antibiotics | 3 tablets bid for 7 days | Case seen and treated by several practitioners without clincal response. Owner reports complete recovery. Best condition in over a year |
| Fox Terrier 36 months, 12 lbs. | Temp. of unknown origin | Penicillin & streptomycin | 1 tablet bid | Vomited after each dose. Changed to Gantrisin. Recovery |
| Pekingese 9 years, 6 lbs. | Temp. 104, Pneumonia Post. Paralysis | Penicillin Mannitol Hexanitrate | 2 tablets bid | Temp. dropped in 24 hours Normal in 48 hours. Recovery |
| Poodle 5 months, 14 lbs. | Glandular enlargement Temp. 105, Tonsillitis | Penicillin & streptomycin Blood and fluids | 2 tablets bid for 3 days | Temp. dropped in 48 hours Normal in 72 hours |
| Boxer 2 years, 55 lbs. | Infectious bronchitis (Kennel cough) | Symptomatic | 8 tablets bid for 4 days | Cough eliminated by 4th day |

antibacterial therapy. A total of 16 typical cases are presented with the results of treatment in Table I. Table II records the clinical response observed in the cases treated.

TABLE II—Result of Meratycin Therapy in Dogs and Cats

| No. Cases Dosed | No. Recovered | No. Improved | No. Failures |
|---|---|---|---|
| 47 | 31 | 8 | 8 |

### Comment

In the series of 47 cases which we treated with Meratycin, 83% responded favorably to the medication. This recovery rate is most encouraging, because the majority of the cases treated had failed to respond to other antibacterial therapy. Based on these observations, we feel that this tablet offers considerable promise in the treatment of bacterial infections in dogs and cats and can be used routinely with confidence. The results obtained in these cases strongly indicate that Meratycin provides the veterinarian with a new broad spectrum antibiotic agent to treat small animal infections.

We are especially impressed with the rapid clinical recovery in cases of infectious bronchitis (kennel cough). Also, it would seem that this medication is especially useful in treating diarrheal conditions in small animals. These tablets were well tolerated by the animals dosed in this study. The only sign of toxicity was ocassional emesis.

### Summary

A new antibiotic sulfonamide tablet, Meratycin, containing 50 mg. of erythromycin and 300 mg. of sufamerazine has been used to treat a wide variety of bacterial infections in small animals. In general, these cases had been unsuccessfully treated with other therapeutic agents. The clinical response gained following the oral administration of these tablets has been extremely gratifying. Of the 47 cases reported in this series, 83% responded favorably to this medication. Detailed information on 16 of the cases is given.

## Applicants

Robert J. Streeter, Los Angeles. Vouchers: L. B. Wolcott, C. F. Gouchenour.

Robert L. Miller, Fallbrook. Vouchers: F. B. Walker, Jr., Warren J. Dedrick.

## "Cougar Veterinarian," Annual 1954 Edition, Now Available

The *Cougar Veterinarian*, the annual publication of the College of Veterinary Medicine, Washington State College, Pullman, Washington, is publishing their 1954 edition consisting of 130 pages.

The magazine was started last year to provide veterinarians of the Northwest and adjacent states with information of diseases and related problems prevalent in that area, and to bring about a closer relationship between the practitioners and the College of Veterinary Medicine in Pullman.

Since many veterinarians in California are graduates of this college, and also since many of the articles in the magazine would relate directly to the problems of practitioners in this state, no doubt the *Cougar Veterinarian* would be of interest and value. Many of the articles were written by veterinarians well known in their particular field of veterinary medicine. There are no advertisements in the magazine, and the cost is $2.00 per copy.

## Ralston Purina Company Research Fellowship Awards

In the past, Purina Fellowships have been awarded each year to seven college students for graduate study in agricultural research. For the 1954-55 school year, ten Fellowships will be granted. Application blanks for the 1954-55 awards, and rules of the program, are now in the process of being sent to agricultural colleges throughout the United States and Canada.

Selection of the winners will continue to be made by a committee of five, one member each from the Poultry Science Association, American Veterinary Medical Association, American Dairy Science Association, American Society Association, American Society of Animal Production and the Association of Land Grant Colleges. Each Fellowship amounts to $1,560.

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# The Laboratory Animal Care Law

O. A. SOAVE, D.V.M.

*Assistant Public Health Veterinarian, California State Department of Public Health*

In 1951, the Legislature of the State of California acted upon and passed a law regulating the care and use of laboratory animals. The administration and the promulgation of rules and regulations pursuant to the law were placed under the auspices of the State Department of Public Health.

As the diseases, husbandry, and other problems relating to laboratory animals are considered to come within the scope of veterinary medicine, an interpretation of the law and regulations, and the philosophy behind the law and that embodied in its administration, might be of interest to the veterinarians of the State of California.

Section 1650 of the law relating to the Care of Laboratory Animals states, "The public health and welfare depend upon the humane use of animals for scientific advancement in the diagnosis and treatment of human and animal diseases, for education, for research in the advancement of veterinary, dental, medical, and biologic sciences, for research in animal and human nutrition, and improvement and standardization of laboratory procedures of biologic products, pharmaceuticals and drugs."

The law goes on to state that administration of the law, making of regulations under the law, inspection, approval and certification of establishments using animals, are all responsibilities of the Health Department.

Regulations formulated by the State Department of Public Health require: (1) That all persons (or institutions) using animals apply for approval to keep and use laboratory animals and be certified by the Health Department; (2) a physical inspection be made of every applicant's premises and quarters where animals are kept; (3) that records be kept as to the number, types, and disposition of animals used; (4) that minimum standards be adhered to in respect to humane care and treatment, housing, feeding, and the employing of trained and capable personnel for handling the animals.

It was not, nor is it now, the intent of the law nor the Health Department to restrict investigators in the choice of animals nor in the procedure applied to these animals. The purpose of the law and regulations is to insure a high standard in the care and use of animals, including the employment of humane practices, adequate sanitary measures, proper nutrition, and satisfactory housing.

Most medical and research institutions, and laboratories have long realized that high standards of care in the housing and maintenance of their research and/or diagnostic animals is essential in order to arrive at results which are desired. Recognizing this fact, many institutions have been the instigators in raising the levels of animal care, and have needed no outside stimulus to improve their methods. The few institutions that appeared to be substandard have, with the aid of the Health Department, raised their standards in a way that was satisfactory to all parties concerned.

To date, applications for certification of approval to keep and use of laboratory animals have been received from approximately 320 persons or institutions and involve more than a quarter of a million laboratory animals. The common animals comprising this figure are: the dog, cat, monkey, rabbit, rat, mouse, hamster, guinea pig, and chicken.

As can be seen from the list of animals used, each species presents a different problem in housing, caging, feeding, and maintenance. Information is sparse concerning these, and other problems encountered in the administration of animal quarters. Because of these facts, it has been brought to light and emphasized, during the administration of the law, that there is a great need for the development of a center which has the ability to collect and disseminate data pertinent to these problems.

Although the primary requisite demanded from the Health Department was the administration and enforcement of the animal care law and regulations, a secondary function has evolved which consists of the offering of consultative service to users of animals regarding the problems encountered in animal care. These problems have been manifold and have indicated that users of animals welcome aid in resolving questions arising in regard to the laboratory species of animals.

Aside from problems involving nutrition, caging, and diseases, the Department's aid has been requested in regard to floor materials, cage construction, building materials, and other architectural information concerning animal house construction.

Experience in the administration of the animal care law has indicated that a definite need exists for the type of service that has been rendered under the law and regulations and that, in the future, an increasing number of veterinarians will be engaged wholly, or in part, in the "care of laboratory animals."

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### Schacht-Casselberry Interviews

Henry Schacht's popular "Farmer's Digest" program, heard Monday through Friday, 6:15 to 6:45 a. m., over radio station KNBC, San Francisco, have included ten interviews with Dr. N. H. Casselberry in recent months.

A Berkeley veterinarian, Dr. Casselberry has discussed such diseases as blue tongue, leptospirosis and grass tetany in cattle.

# Mesothelioma, An Unusual Equine Tumor

CHARLES H. REID, D.V.M.,* *Hollywood, California*

In August, 1953, I was called to examine a mare which the owner described as "getting fatter but poorer all the time." The animal was an 11-year-old mare of trotting horse type, with a tremendously distended abdomen, suggesting a rupture of the prepubic tendon.

The owner was curious as to when she might have a colt, and it was agreed that she was large enough to have three colts. She had raised a colt when she was 4 years old, but had failed to conceive since. An extra-uterine pregnancy in a cystic stage was regarded as a possible diagnosis.

Her breathing was rapid, shallow, and of an intercostal and diaphragmatic nature, her temperature was normal, and no edema was present. She had a good appetite but lacked musculature over the entire body. In fact, had the distention of the abdomen suddenly been removed, it would have revealed a condition almost cachexial in nature. The pulse rate was 75, and all superficial veins were distended; the external thoracic vein, together with its tributaries, appeared inflated. There was a marked jugular pulse on both sides from the chest to the head, easily discernible at a distance of 50 feet. When the head was lowered, the enlargement of the vein was tremendous. Stethoscopic investigation of this jugular pulse revealed a terrific hammering with each wave and the heart sounds included more pulses and murmurs than is easy to explain. Rectal examination disclosed an abdominal tumor situated more or less on the left side of the abdomen in close proximity with the left ovary. There was also a great quantity of fluid in the abdominal cavity. A diagnosis of abdominal tumor with ascites was made.

Treatment was not feasible and she died suddenly about 21 days after observation.

At necropsy, it was found that the abdomen contained several gallons of fluid and several tumors, more or less globular in shape, varying in size from a football to an egg, all apparently connected. When strung out on the floor, the mass was about 4 or 5 feet long with a combined weight estimated at about 200 pounds. The necropsy report from the Los Angeles County Livestock Department was "our diagnosis is mesothelioma."

"Diagnosis would have been difficult had we not had excellent clinical and postmortem histories on this case. This is not considered a malignant type of growth although it is fatal. Feldman[1] states:

"Available data afford little evidence of metastatic propensities on the part of these tumors. Certain observers claim that they never metastasize; others hold that metastisis does occur. Although a large number of immateur cell forms may be present, many of which are undergoing mitosis, the tendency of these cells to enter the blood vascular system or the lymphatics is not comparable to that manifested by many other varieties of malignant growths. It is true that a nearby lymph node occasionally is invaded, and rarely there may be extensive invasion of an adjacent organ, but this is exceptional. The tumors ordinarily remain localized, although frequently multiple growths may be present which do not exhibit malignant aggressiveness comparable to what might be expected from the histologic structure of the mass.

"Since multiplicity is one of the commonest characteristics reported, spread within a short radius perhaps occurs, although the exact mechanism of this phenomenon is somewhat obscure. However, it might be explained on the basis of transplantation caused by dissemination of the tumor cells over the surface of the serosa as a consequence of friction, or the multiplicity may be due to the simultaneous origin of new growths at a number of different points.

"Death is usually a result of physical interference with body functions and infections and suppurations which develop within these tumors." Feldman[2] also states:

"Although mesotheliomas undoubtedly are rare, they must occur more frequently in lower animals than is indicated by reported cases. The lack of a uniform nomenclature would suggest that perhaps many of these tumors have been designated as carcinomas, endotheliomas, or as some form of sarcoma, and as a consequence they are difficult to recognize in the literature.

"Among the neoplasms in my collection, mesothelial tumors occurred once among 43 tumors of horses, and twice among 230 tumors of cattle."

The author's question is "How many times may we have overlooked such a condition?"

*Dr. Reid is a general practictioner in Hollywood, Calif.

[1]Feldman, William H.: Neoplasms of Domesticated Animals, W. B. Saunders Company, Philadelphia (1932), 197.

[2]Feldman, William H.: Neoplasms of Domesticated Animals, W. B. Saunders Company, Philadelphia (1932), 195.

## New Officers for the American Animal Hospital Association

The excellence of a scientific program prepared for the annual meeting of the AAHA attracted a record attendance for this group of approximately 750.

Officers elected to serve for the ensuing year are: Dr. Charles W. Bower, president; Dr. William F. Irwin, president-elect; Dr. James H. Yarborough, vice-president; Dr. Wayne Riser, executive secretary; and Dr. Arthur R. Theobold, treasurer.

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## Equine Laparotomy

*(Continued from page 19)*

Equine abdominal surgery in the field has met with a great deal of reluctance. It has been stated that the alleged sensitivity of the horse's peritoneum per se is an excuse, not a cause, for dodging major abdominal surgery in the horse.[9] The average veterinarian has adequate training to cope with most difficulties which might arise in the course of such surgery. It should be emphasized that this type of surgery can be performed successfully providing the fundamental principle of sterile technique is employed.

**Summary**

Three successful laparotomies in 2 ponies are described. Indications are that major equine abdominal surgery in the field is a practical procedure providing strict asepsis is observed.

[9]Anon.: Laparotomy in Horses, *J.A.V.M.A.*, 119 (1951), 273.

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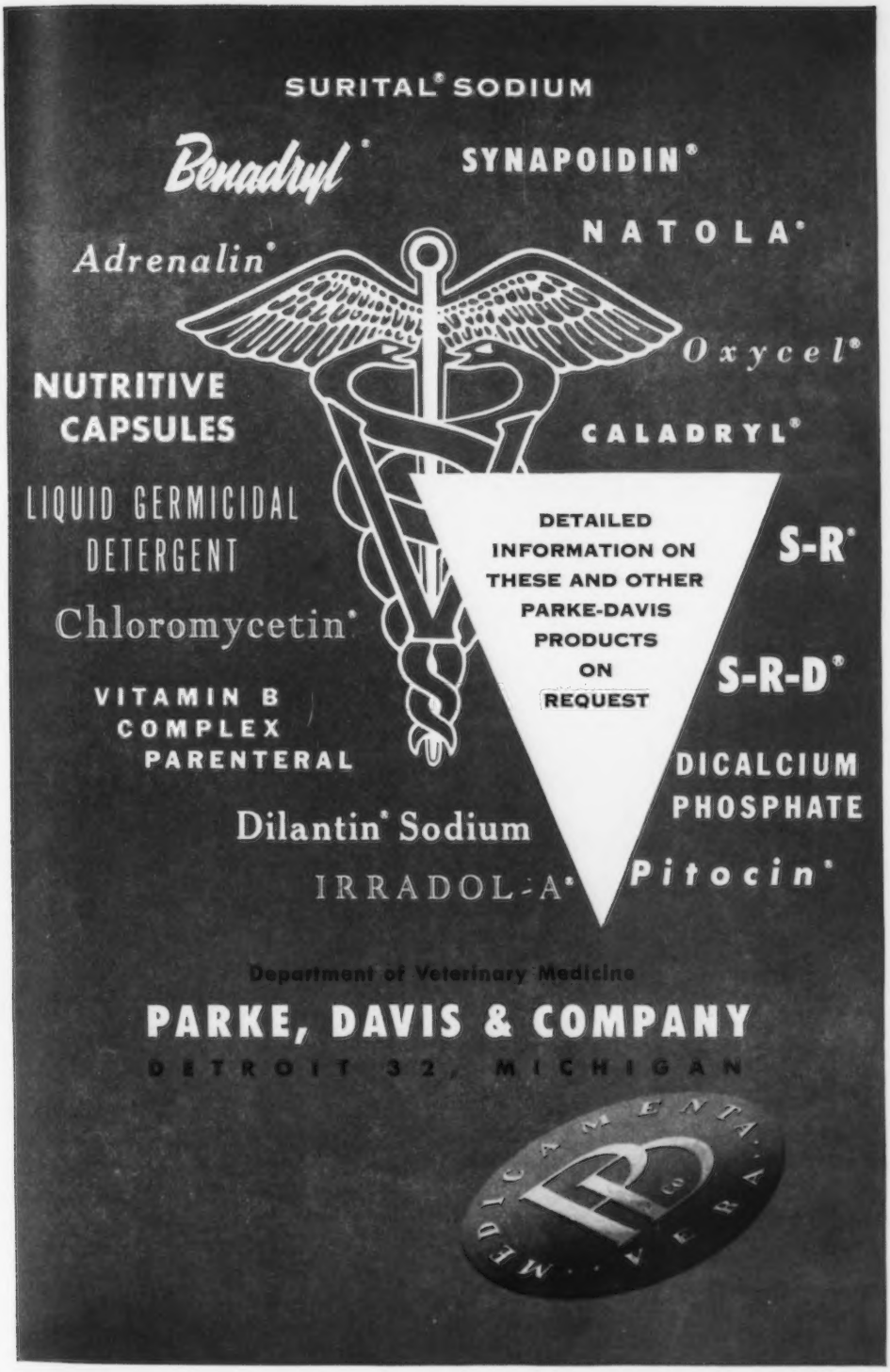
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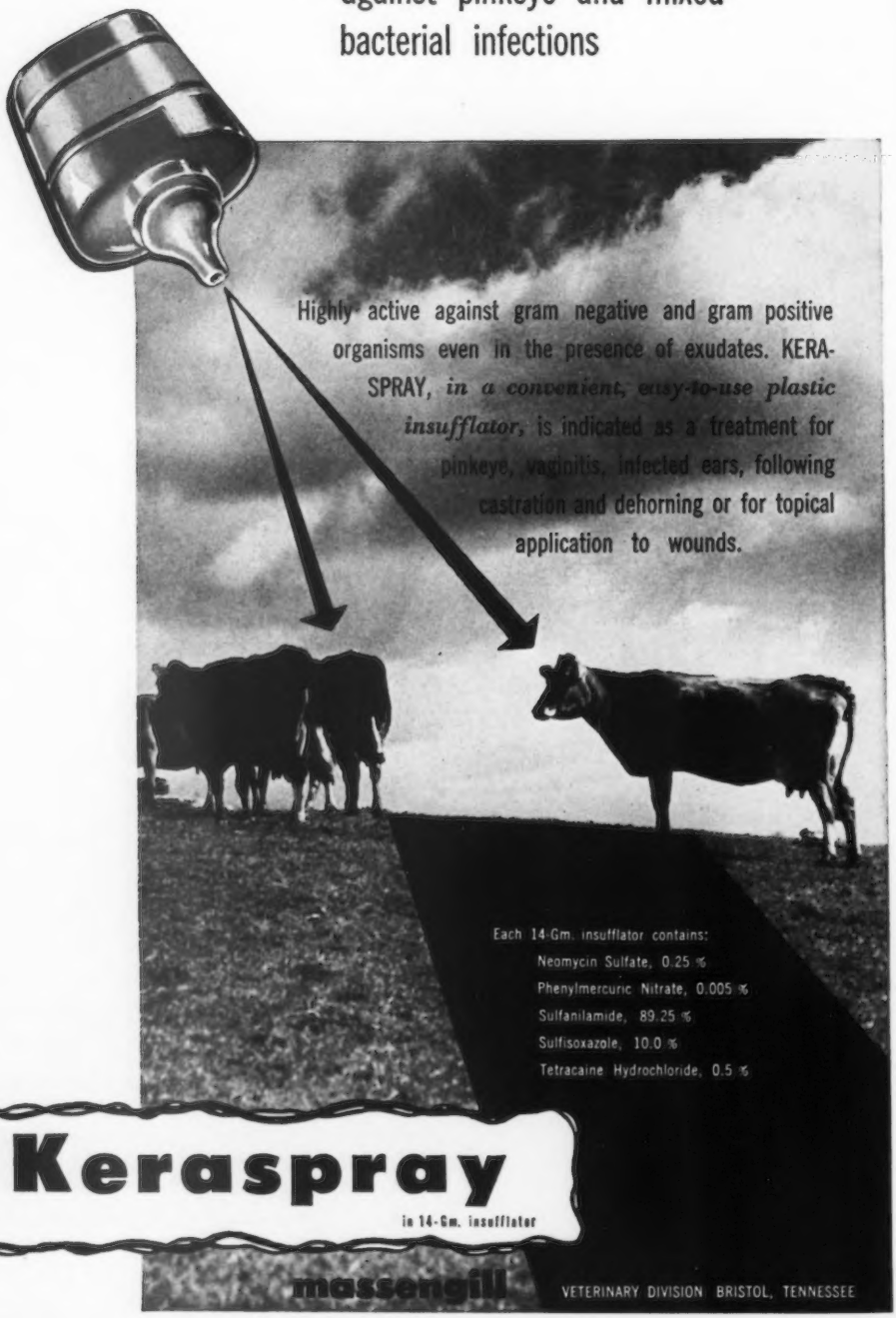
against pinkeye and mixed bacterial infections



# INTRADERMAL VACCINES

## *for protection against*

# DISTEMPER HEPATITIS

### 1. *A NEW Bivalent Vaccine*

### *Canine Distemper Vaccine and Infectious Canine Hepatitis Vaccine*

A completely safe and effective method of immunizing dogs against the two most important diseases.

A 2 cc **intradermal** dose given in two or more sites may be used on puppies after weaning as the first dose of killed vaccine in a distemper immunizing plan, to be followed by one or two doses of **Intradermal** Canine Distemper Vaccine. The hepatitis factor in the first dose will produce a satisfactory immunity to that disease—or the vaccine can be used in all of two or three doses to enhance immunity to both infections.

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| Packaged: | 1—2 cc vial | **$ 1.50** |
| | 10—2 cc vials | **15.00** |

### 2. *INTRADERMAL Infectious Canine Hepatitis Vaccine*

The extreme prevalence of infectious hepatitis in dogs and the high efficiency of **Intradermal** Infectious Canine Hepatitis Vaccine has increased the desirability of preimmunization of as many young dogs as possible.

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### 3. *INTRADERMAL Canine Distemper Vaccine*

The old reliable and standby of many: Efficient—Safe—Professional—and at the same price—$1.00 per dose.

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One which may be used with serum to add immediate protection to this long-lasting immunity.

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*and*

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## ADHEP *

A chemically killed suspension of virus laden canine tissue adsorbed onto aluminum hydroxide.

1 cc. of Adhep intradermally confers solid immunity in less than two weeks.

Serve your clients better by reminding them that young puppies should be vaccinated as soon as possible after weaning.

**Supplied in:**
**1 cc. Single Dose Vials**
**6-1 cc. Single Dose Vials**

## CANINE DISTEMPER VACCINE

Full stabilized, chick embryo propagated, modified live virus. Research Laboratories Canine Distemper Vaccine is scientifically vacuum dried and sealed — your assurance of immunizing potency and safety.

**Supplied in:**
**2 cc. Single Dose Vials** with diluent.
**6-2 cc. Single Dose Vials** with diluent.

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